LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\
Data File : BM023227.D
Acq On : 17 Oct 2019 19:42
Operator : JU
Sample : K5236-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BEPM1

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.175 | 29 | 32 | 41 | rVB | 70711 | 108094 | 1.36% | 0.099% |
| 2 | 3.587 | 99 | 102 | 107 | rVB2 | 25680 | 30415 | 0.38% | 0.028% |
| 3 | 3.681 | 114 | 118 | 125 | rVB | 119361 | 161953 | 2.04% | 0.149% |
| 4 | 3.816 | 136 | 141 | 147 | rVV | 51035 | 81722 | 1.03% | 0.075% |
| 5 | 3.899 | 150 | 155 | 165 | rVB | 232443 | 321113 | 4.05% | 0.295% |
| 6 | 4.899 | 322 | 325 | 332 | rVB5 | 22742 | 34275 | 0.43% | 0.032% |
| 7 | 6.840 | 645 | 655 | 670 | rVB2 | 970477 | 1841788 | 23.22% | 1.694% |
| 8 | 6.999 | 676 | 682 | 690 | rBV | 719153 | 1138235 | 14.35% | 1.047% |
| 9 | 7.199 | 708 | 716 | 723 | rBV | 1037661 | 1637012 | 20.64% | 1.505% |
| 10 | 7.310 | 732 | 735 | 740 | rBV3 | 22813 | 39087 | 0.49% | 0.036% |
| 11 | 7.663 | 788 | 795 | 802 | rBV | 1042091 | 1614815 | 20.36% | 1.485% |
| 12 | 8.198 | 881 | 886 | 895 | rBV9 | 11594 | 28397 | 0.36% | 0.026% |
| 13 | 8.369 | 908 | 915 | 922 | rBV | 1137434 | 1798408 | 22.67% | 1.654% |
| 14 | 8.810 | 983 | 990 | 1000 | rVV | 888907 | 1469007 | 18.52% | 1.351% |
| 15 | 8.916 | 1002 | 1008 | 1012 | rVV3 | 19414 | 32338 | 0.41% | 0.030% |
| 16 | 9.292 | 1065 | 1072 | 1077 | rBV2 | 37808 | 57199 | 0.72% | 0.053% |
| 17 | 9.528 | 1105 | 1112 | 1120 | rBV | 744618 | 1212328 | 15.28% | 1.115% |
| 18 | 10.069 | 1197 | 1204 | 1213 | rVB | 1269115 | 2072269 | 26.12% | 1.906% |
| 19 | 10.445 | 1260 | 1268 | 1274 | rBV | 1353230 | 2237528 | 28.21% | 2.058% |
| 20 | 10.498 | 1274 | 1277 | 1283 | rVV | 35262 | 57359 | 0.72% | 0.053% |
| 21 | 10.575 | 1283 | 1290 | 1308 | rVV | 864211 | 1589754 | 20.04% | 1.462% |
| 22 | 11.904 | 1510 | 1516 | 1522 | rBV7 | 19982 | 39916 | 0.50% | 0.037% |
| 23 | 12.045 | 1534 | 1540 | 1546 | rVV2 | 26188 | 50225 | 0.63% | 0.046% |
| 24 | 12.116 | 1546 | 1552 | 1561 | rVB | 54888 | 104949 | 1.32% | 0.097% |
| 25 | 12.339 | 1584 | 1590 | 1595 | rVB | 47112 | 75210 | 0.95% | 0.069% |
| 26 | 13.145 | 1723 | 1727 | 1728 | rVV3 | 22537 | 28223 | 0.36% | 0.026% |
| 27 | 13.163 | 1728 | 1730 | 1733 | rVV3 | 27502 | 31007 | 0.39% | 0.029% |
| 28 | 13.475 | 1779 | 1783 | 1784 | rVV4 | 35485 | 49253 | 0.62% | 0.045% |
| 29 | 13.492 | 1784 | 1786 | 1792 | rVB3 | 41889 | 53551 | 0.68% | 0.049% |
| 30 | 13.633 | 1801 | 1810 | 1815 | rBV3 | 86393 | 160550 | 2.02% | 0.148% |
| 31 | 13.686 | 1815 | 1819 | 1820 | rVV | 43660 | 48897 | 0.62% | 0.045% |
| 32 | 13.727 | 1820 | 1826 | 1830 | rVV | 2078186 | 2938976 | 37.05% | 2.703% |
| 33 | 13.769 | 1830 | 1833 | 1840 | rVB | 793114 | 1119955 | 14.12% | 1.030% |
| 34 | 13.869 | 1846 | 1850 | 1854 | rVV2 | 39458 | 52344 | 0.66% | 0.048% |

LSC Area Percent Report

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Data File : BM023227.D
Acq On : 17 Oct 2019 19:42
Operator : JU
Sample : K5236-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BEPM1

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 13.998 | 1865 | 1872 | 1889 | rBV | 2477924 | 4048410 | 51.04% | 3.723% |
| 36 | 14.245 | 1910 | 1914 | 1918 | rVV3 | 27464 | 40313 | 0.51% | 0.037% |
| 37 | 14.310 | 1918 | 1925 | 1931 | rVV | 1983809 | 2982381 | 37.60% | 2.743% |
| 38 | 14.375 | 1931 | 1936 | 1943 | rVB | 109224 | 163449 | 2.06% | 0.150% |
| 39 | 14.510 | 1953 | 1959 | 1969 | rBV | 736435 | 1165738 | 14.70% | 1.072% |
| 40 | 14.657 | 1980 | 1984 | 1988 | rBV2 | 37737 | 50238 | 0.63% | 0.046% |
| 41 | 14.727 | 1989 | 1996 | 2003 | rVB4 | 162869 | 369738 | 4.66% | 0.340% |
| 42 | 14.792 | 2003 | 2007 | 2013 | rVB | 54842 | 87712 | 1.11% | 0.081% |
| 43 | 14.939 | 2026 | 2032 | 2037 | rBV3 | 42084 | 77785 | 0.98% | 0.072% |
| 44 | 14.986 | 2037 | 2040 | 2046 | rVB2 | 38912 | 52945 | 0.67% | 0.049% |
| 45 | 15.110 | 2053 | 2061 | 2064 | rBV6 | 37702 | 80975 | 1.02% | 0.074% |
| 46 | 15.139 | 2064 | 2066 | 2071 | rVV5 | 35745 | 44551 | 0.56% | 0.041% |
| 47 | 15.198 | 2071 | 2076 | 2082 | rVV3 | 37746 | 59006 | 0.74% | 0.054% |
| 48 | 15.304 | 2088 | 2094 | 2100 | rBV | 3135713 | 4478948 | 56.46% | 4.119% |
| 49 | 15.363 | 2100 | 2104 | 2109 | rVB | 224208 | 316953 | 4.00% | 0.291% |
| 50 | 15.422 | 2109 | 2114 | 2123 | rBV | 616648 | 918099 | 11.57% | 0.844% |
| 51 | 15.545 | 2129 | 2135 | 2139 | rBV5 | 36462 | 79211 | 1.00% | 0.073% |
| 52 | 15.657 | 2150 | 2154 | 2159 | rBV | 77450 | 117392 | 1.48% | 0.108% |
| 53 | 15.804 | 2175 | 2179 | 2186 | rVV | 90691 | 188505 | 2.38% | 0.173% |
| 54 | 15.898 | 2188 | 2195 | 2198 | rVV6 | 32932 | 70139 | 0.88% | 0.064% |
| 55 | 16.004 | 2208 | 2213 | 2215 | rBV | 52573 | 78261 | 0.99% | 0.072% |
| 56 | 16.092 | 2225 | 2228 | 2234 | rVB2 | 45383 | 91604 | 1.15% | 0.084% |
| 57 | 16.186 | 2240 | 2244 | 2247 | rBV5 | 23370 | 37822 | 0.48% | 0.035% |
| 58 | 16.369 | 2264 | 2275 | 2280 | rBV4 | 77314 | 215211 | 2.71% | 0.198% |
| 59 | 16.416 | 2280 | 2283 | 2288 | rVB3 | 44179 | 61610 | 0.78% | 0.057% |
| 60 | 16.604 | 2311 | 2315 | 2317 | rVV2 | 61350 | 83460 | 1.05% | 0.077% |
| 61 | 16.639 | 2318 | 2321 | 2324 | rVB2 | 54683 | 65648 | 0.83% | 0.060% |
| 62 | 16.710 | 2329 | 2333 | 2343 | rVB2 | 104392 | 193446 | 2.44% | 0.178% |
| 63 | 16.798 | 2343 | 2348 | 2353 | rBV2 | 74889 | 153046 | 1.93% | 0.141% |
| 64 | 16.874 | 2355 | 2361 | 2366 | rVB | 99612 | 172905 | 2.18% | 0.159% |
| 65 | 16.980 | 2375 | 2379 | 2382 | rBV6 | 51033 | 71379 | 0.90% | 0.066% |
| 66 | 17.057 | 2386 | 2392 | 2395 | rVV2 | 2347414 | 3354421 | 42.29% | 3.085% |
| 67 | 17.098 | 2395 | 2399 | 2403 | rVV | 2431322 | 3390470 | 42.74% | 3.118% |
| 68 | 17.157 | 2403 | 2409 | 2413 | rVV | 3468480 | 5211829 | 65.70% | 4.793% |
| 69 | 17.186 | 2413 | 2414 | 2419 | rVV | 526327 | 499661 | 6.30% | 0.459% |
| 70 | 17.245 | 2421 | 2424 | 2431 | rVB4 | 106035 | 181507 | 2.29% | 0.167% |
| 71 | 17.457 | 2452 | 2460 | 2466 | rBV2 | 238299 | 444121 | 5.60% | 0.408% |

LSC Area Percent Report

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Operator : JU
Sample : K5236-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BEPM1

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 17.504 | 2466 | 2468 | 2472 | rVV4 | 36709 | 47627 | 0.60% | 0.044% |
| 73 | 17.586 | 2479 | 2482 | 2486 | rBV3 | 46827 | 63390 | 0.80% | 0.058% |
| 74 | 17.639 | 2488 | 2491 | 2495 | rVB | 74502 | 91706 | 1.16% | 0.084% |
| 75 | 17.933 | 2536 | 2541 | 2545 | rBV | 338428 | 470109 | 5.93% | 0.432% |
| 76 | 17.980 | 2545 | 2549 | 2557 | rVB | 668718 | 901088 | 11.36% | 0.829% |
| 77 | 18.063 | 2558 | 2563 | 2567 | rVB2 | 149522 | 219329 | 2.77% | 0.202% |
| 78 | 18.121 | 2568 | 2573 | 2578 | rVV2 | 527288 | 978862 | 12.34% | 0.900% |
| 79 | 18.163 | 2578 | 2580 | 2585 | rVB | 245860 | 288728 | 3.64% | 0.266% |
| 80 | 18.439 | 2623 | 2627 | 2629 | rBV | 236514 | 313991 | 3.96% | 0.289% |
| 81 | 18.468 | 2629 | 2632 | 2640 | rVB | 265512 | 387934 | 4.89% | 0.357% |
| 82 | 18.739 | 2675 | 2678 | 2681 | rBV2 | 83840 | 112625 | 1.42% | 0.104% |
| 83 | 18.857 | 2694 | 2698 | 2702 | rBV | 234967 | 350290 | 4.42% | 0.322% |
| 84 | 18.992 | 2719 | 2721 | 2729 | rVB3 | 202959 | 318674 | 4.02% | 0.293% |
| 85 | 19.115 | 2737 | 2742 | 2748 | rVB | 4509218 | 6279909 | 79.17% | 5.775% |
| 86 | 19.268 | 2765 | 2768 | 2772 | rBV | 149712 | 196542 | 2.48% | 0.181% |
| 87 | 19.451 | 2794 | 2799 | 2802 | rBV2 | 5171763 | 7513843 | 94.72% | 6.909% |
| 88 | 19.480 | 2802 | 2804 | 2812 | rVB | 3697600 | 4403384 | 55.51% | 4.049% |
| 89 | 19.662 | 2832 | 2835 | 2838 | rBV | 219477 | 253657 | 3.20% | 0.233% |
| 90 | 19.980 | 2886 | 2889 | 2895 | rVB2 | 709449 | 1007854 | 12.71% | 0.927% |
| 91 | 20.080 | 2903 | 2906 | 2910 | rBV | 497629 | 631536 | 7.96% | 0.581% |
| 92 | 20.986 | 3057 | 3060 | 3064 | rBV | 1369245 | 1625567 | 20.49% | 1.495% |
| 93 | 21.245 | 3098 | 3104 | 3108 | rBV3 | 3941647 | 7932317 | 100.00% | 7.294% |
| 94 | 21.286 | 3108 | 3111 | 3118 | rVB | 2215146 | 2855398 | 36.00% | 2.626% |
| 95 | 21.880 | 3209 | 3212 | 3217 | rVB | 1040999 | 1301633 | 16.41% | 1.197% |
| 96 | 22.803 | 3364 | 3369 | 3373 | rBV | 2100989 | 4359102 | 54.95% | 4.008% |
| 97 | 22.845 | 3373 | 3376 | 3380 | rVB | 1918022 | 2593829 | 32.70% | 2.385% |
| 98 | 23.321 | 3452 | 3457 | 3461 | rBV | 3252549 | 5411460 | 68.22% | 4.976% |
| 99 | 23.368 | 3462 | 3465 | 3470 | rVB | 1657777 | 2402990 | 30.29% | 2.210% |
| 100 | 23.462 | 3476 | 3481 | 3486 | rBV | 2086610 | 3418306 | 43.09% | 3.143% |

Sum of corrected areas: 108746721

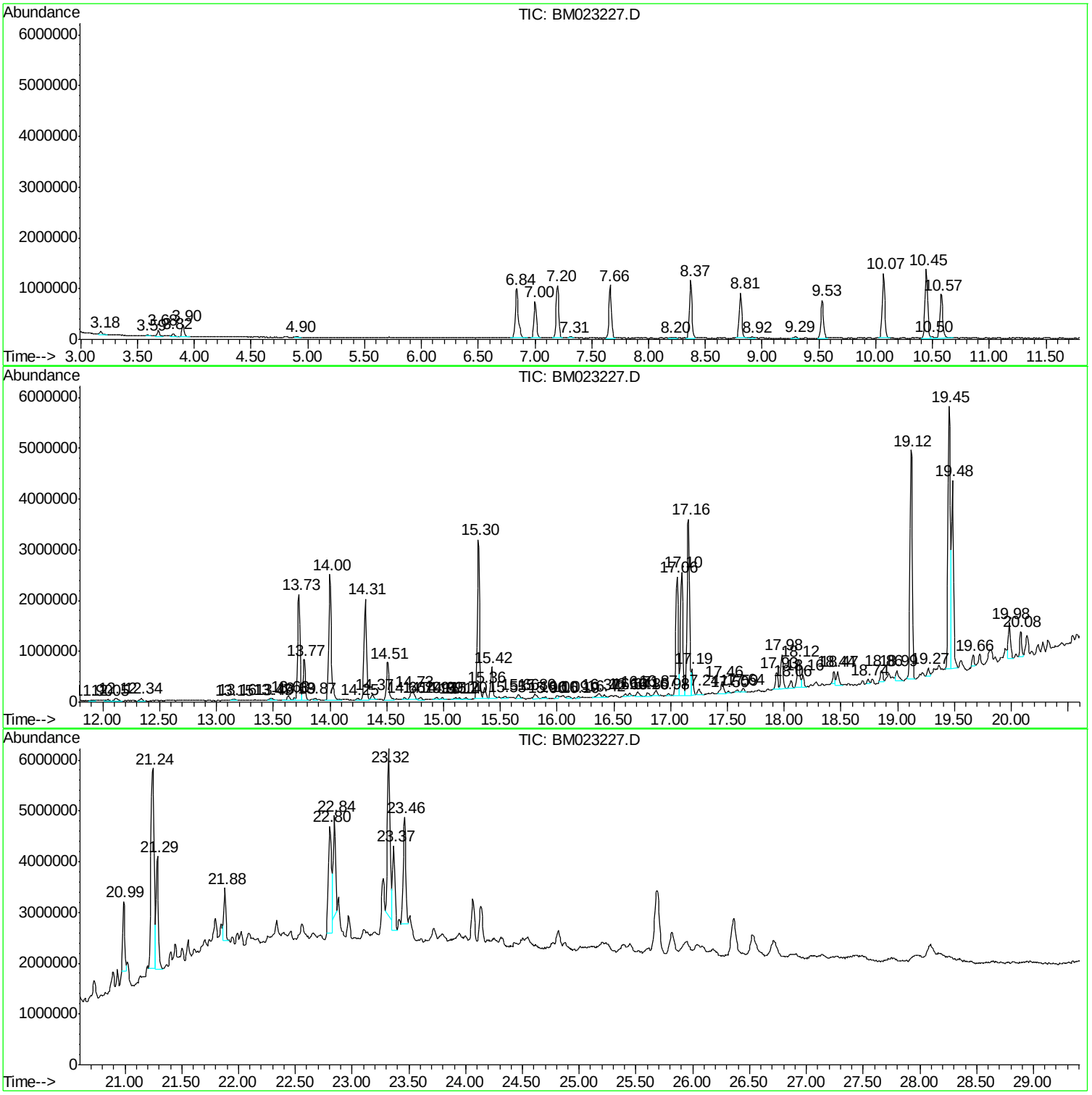
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\
Data File : BM023227.D
Acq On : 17 Oct 2019 19:42
Operator : JU
Sample : K5236-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BEPM1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\
Data File : BM023227.D
Acq On : 17 Oct 2019 19:42
Operator : JU
Sample : K5236-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BEPM1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

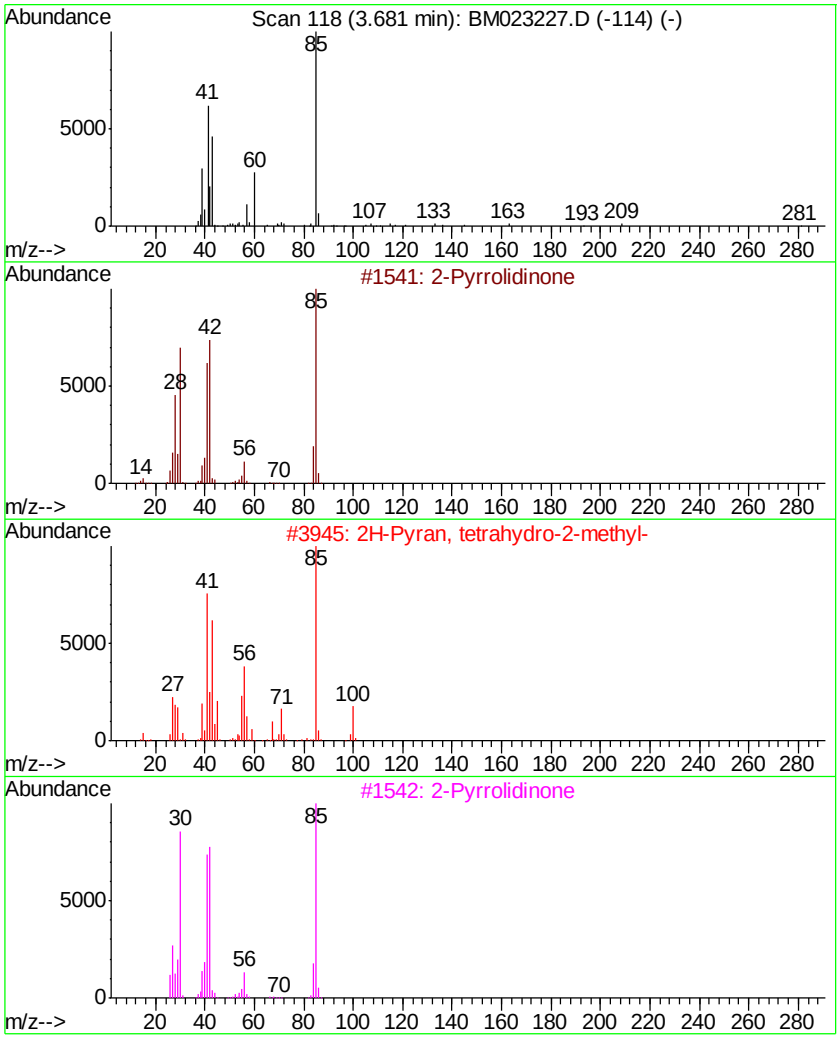
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

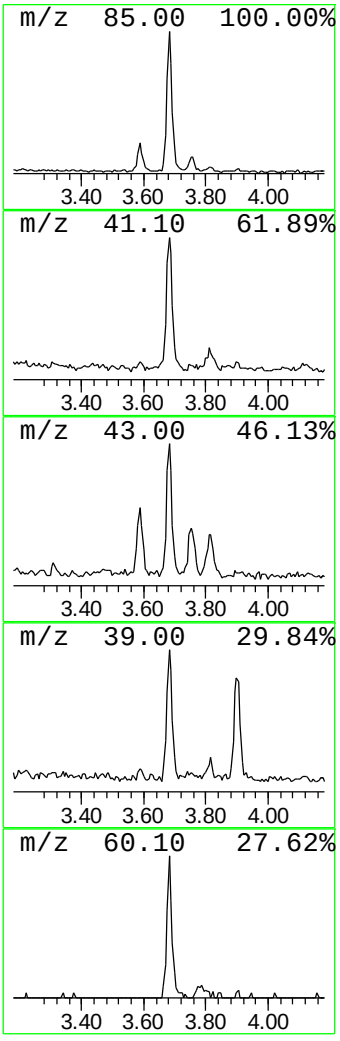
**********

Peak Number 1 unknown-01 Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.68 | 2.01 ng/ul | 161953 | 1,4-Dichlorobenzene-d4 | 7.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pyrrolidinone | 85 | C4H7NO | 000616-45-5 | 38 |
| 2 | 2H-Pyran, tetrahydro-2-methyl- | 100 | C6H12O | 010141-72-7 | 38 |
| 3 | 2-Pyrrolidinone | 85 | C4H7NO | 000616-45-5 | 38 |
| 4 | Oxirane, (2-methylpropyl)- | 100 | C6H12O | 023850-78-4 | 36 |
| 5 | Benzene, 1,3-bis(tetrahydropyran... | 278 | C16H22O4 | 030778-88-2 | 33 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\
Data File : BM023227.D
Acq On : 17 Oct 2019 19:42
Operator : JU
Sample : K5236-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BEPM1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

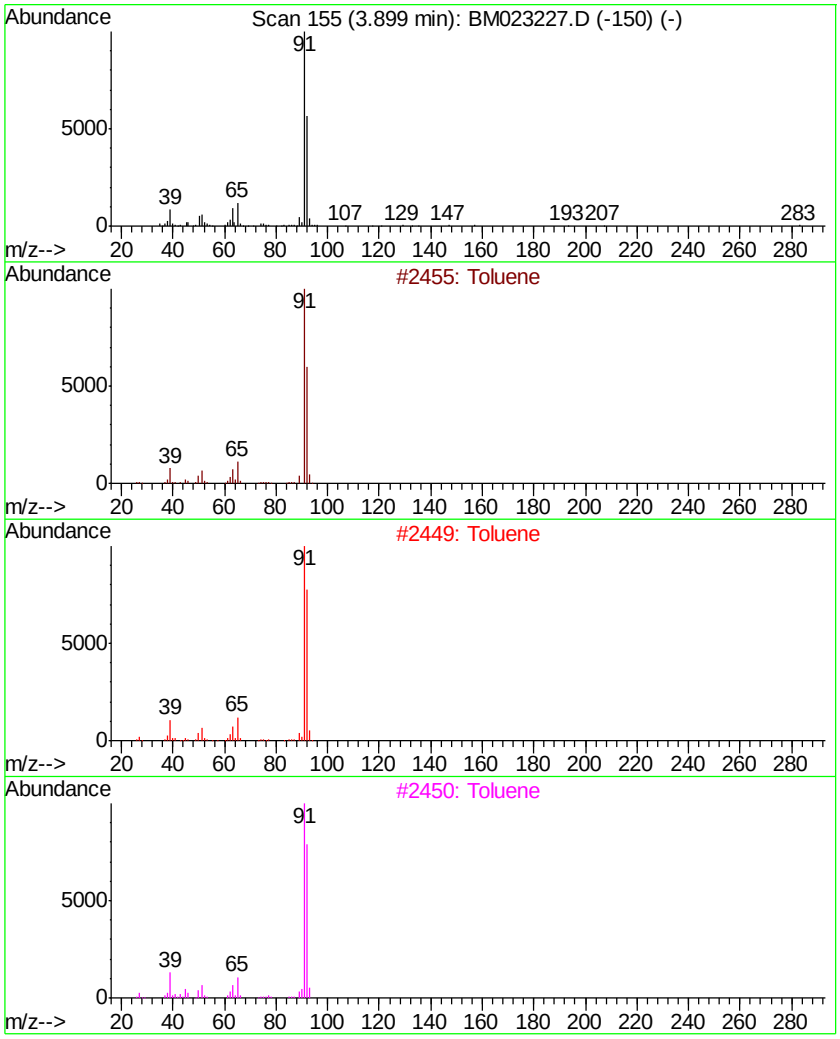
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

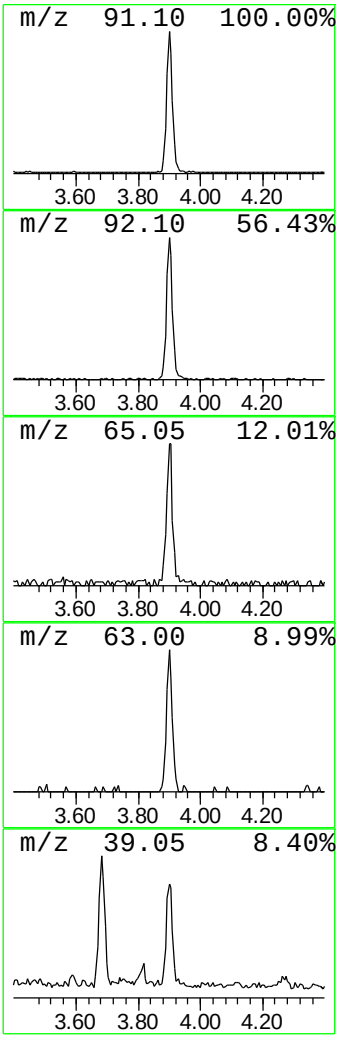
**********

Peak Number 2 Toluene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.90 | 3.98 ng/ul | 321113 | 1,4-Dichlorobenzene-d4 | 7.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Toluene | 92 | C7H8 | 000108-88-3 | 94 |
| 2 | Toluene | 92 | C7H8 | 000108-88-3 | 93 |
| 3 | Toluene | 92 | C7H8 | 000108-88-3 | 90 |
| 4 | Spiro[2,4]hepta-4,6-diene | 92 | C7H8 | 000765-46-8 | 87 |
| 5 | 1,3,5-Cycloheptatriene | 92 | C7H8 | 000544-25-2 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\
Data File : BM023227.D
Acq On : 17 Oct 2019 19:42
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Sample : K5236-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BEPM1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

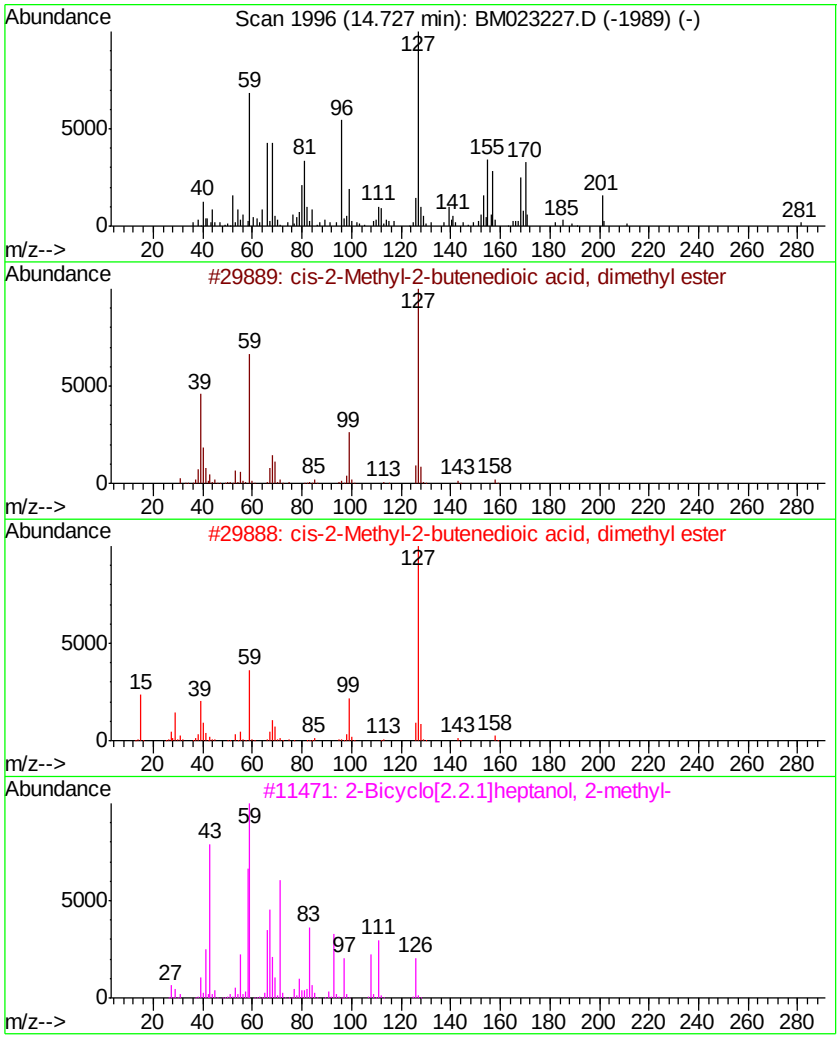
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

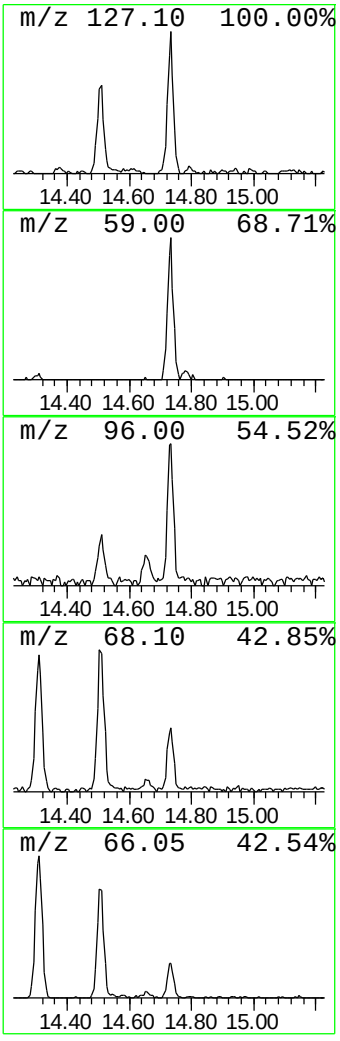
**********

Peak Number 3 unknown-02 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.73 | 2.48 ng/ul | 369738 | Acenaphthene-d10 | 14.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | cis-2-Methyl-2-butenedioic acid,... | 158 | C7H10O4 | 000617-54-9 | 18 |
| 2 | cis-2-Methyl-2-butenedioic acid,... | 158 | C7H10O4 | 000617-54-9 | 11 |
| 3 | 2-Bicyclo[2.2.1]heptanol, 2-methyl- | 126 | C8H14O | 1000197-57-9 | 11 |
| 4 | Thiazole, 2-butyl-4,5-dimethyl- | 169 | C9H15NS | 076572-48-0 | 11 |
| 5 | Butanamide, N-(4-chlorophenyl)-3... | 211 | C10H10ClNO2 | 000101-92-8 | 11 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\
Data File : BM023227.D
Acq On : 17 Oct 2019 19:42
Operator : JU
Sample : K5236-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BEPM1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

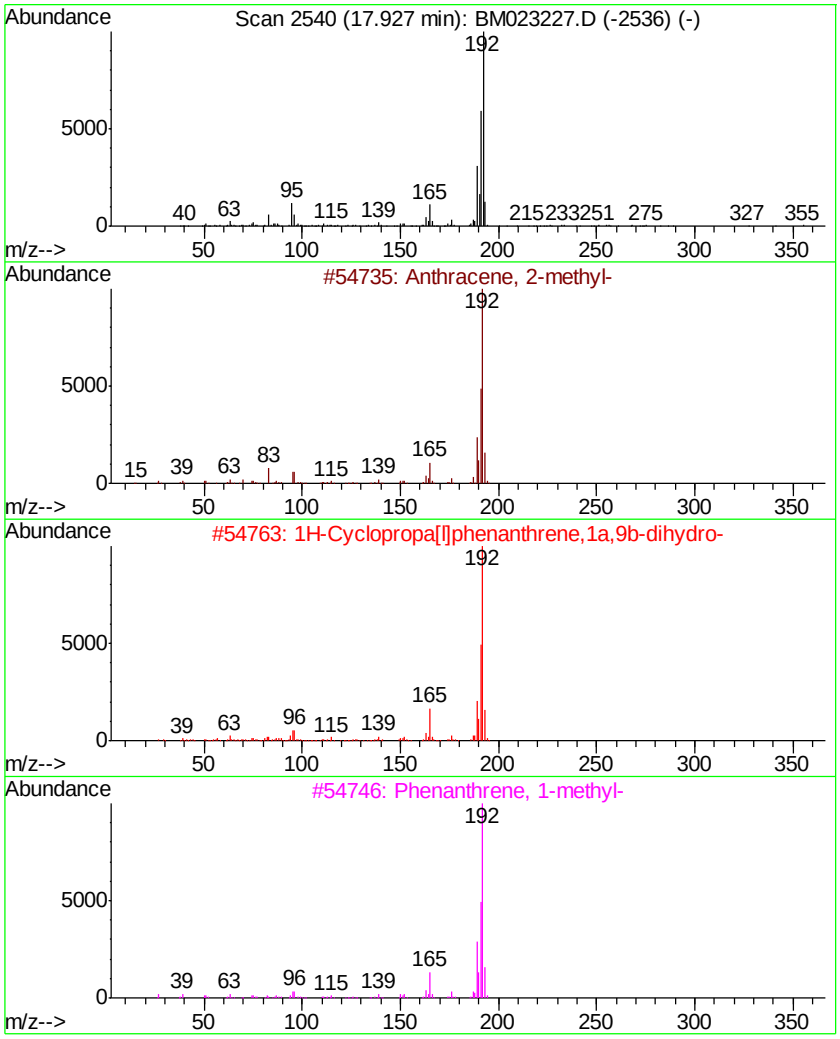
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

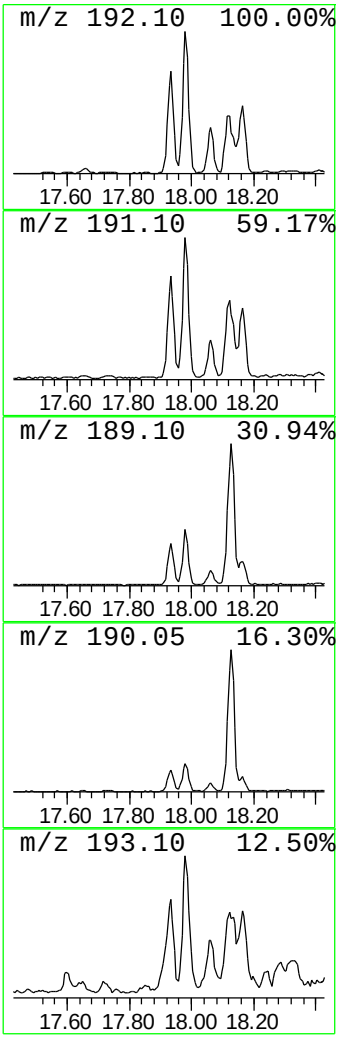
**********

Peak Number 4 Anthracene, 2-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.93 | 2.80 ng/ul | 470109 | Phenanthrene-d10 | 17.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 93 |
| 2 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 92 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 90 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 87 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\
Data File : BM023227.D
Acq On : 17 Oct 2019 19:42
Operator : JU
Sample : K5236-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BEPM1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

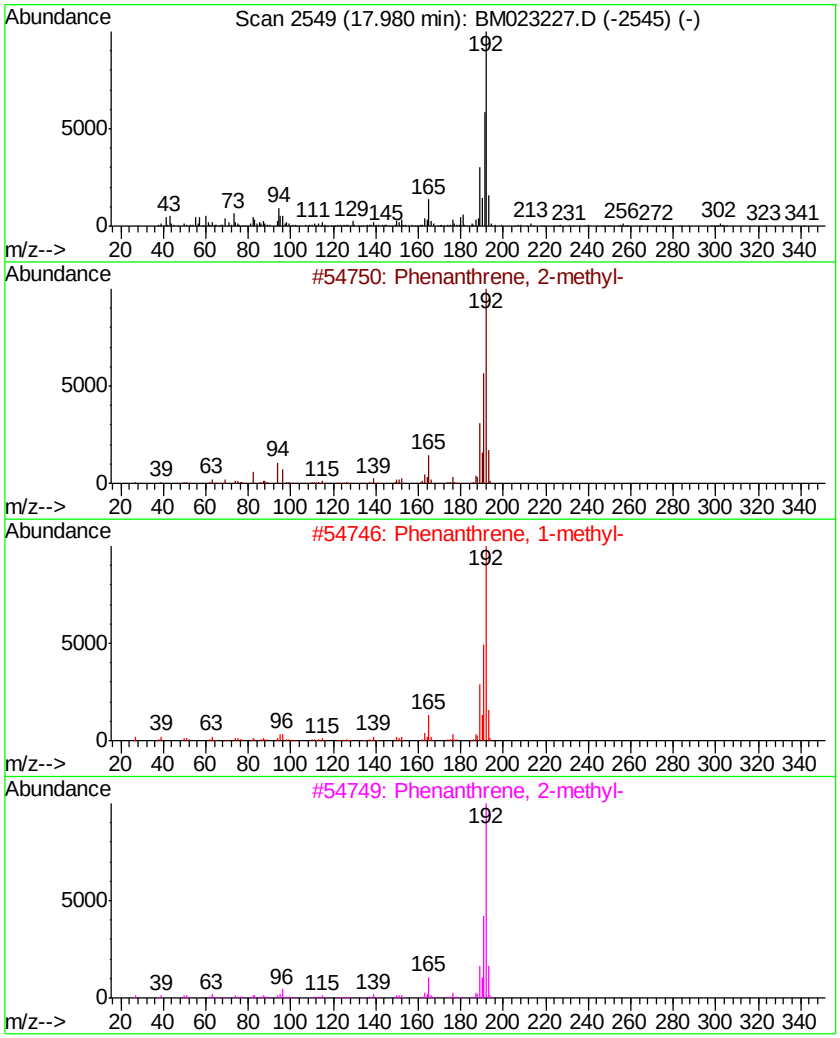
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

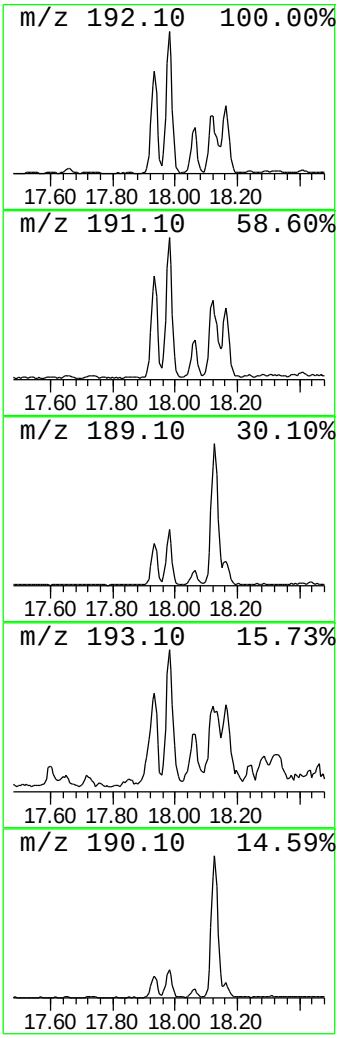
**********

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.98 | 5.37 ng/ul | 901088 | Phenanthrene-d10 | 17.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 4 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 96 |
| 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 95 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\
Data File : BM023227.D
Acq On : 17 Oct 2019 19:42
Operator : JU
Sample : K5236-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BEPM1

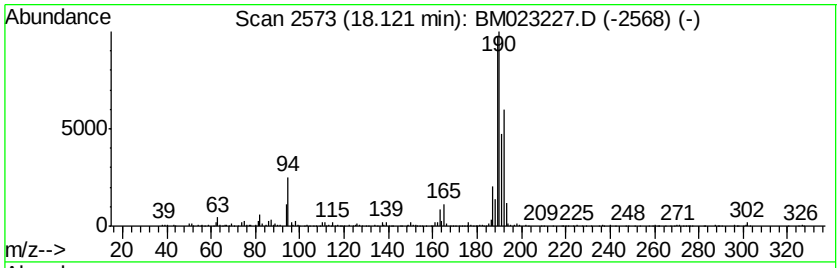
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

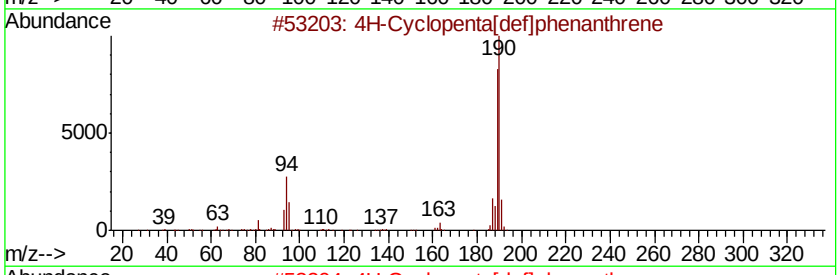
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

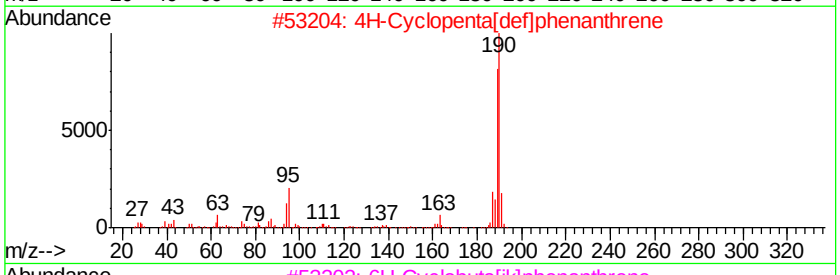
**********
Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

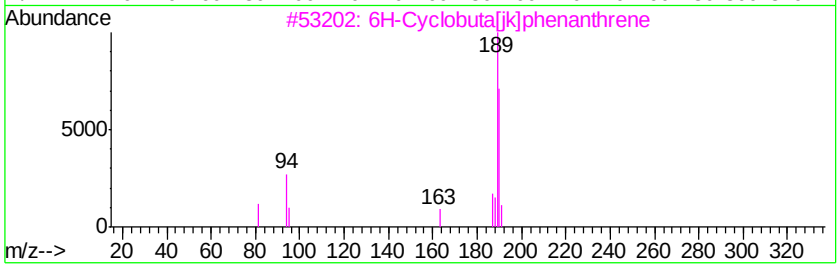
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.12 | 5.84 ng/ul | 978862 | Phenanthrene-d10 | 17.06 |

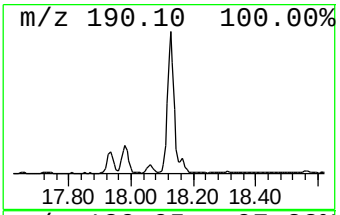
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 92 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 60 |
| 3 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 58 |
| 4 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 49 |
| 5 | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 41 |

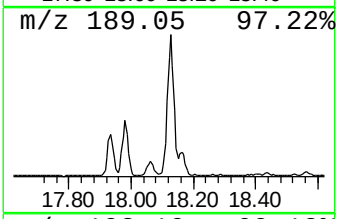


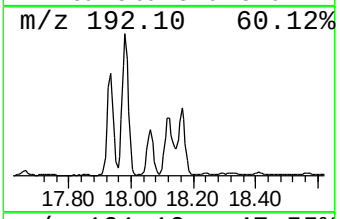



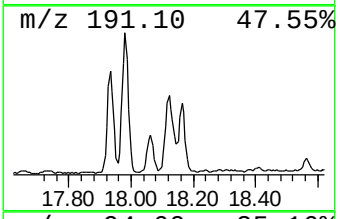



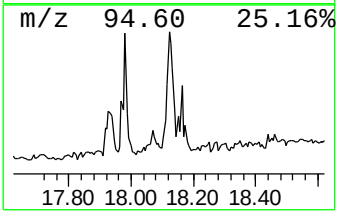



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\
Data File : BM023227.D
Acq On : 17 Oct 2019 19:42
Operator : JU
Sample : K5236-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BEPM1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

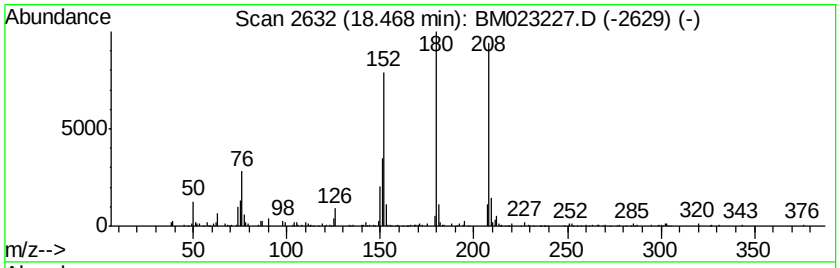
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

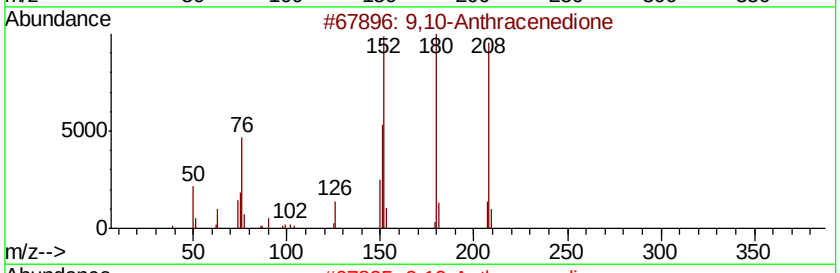
**********

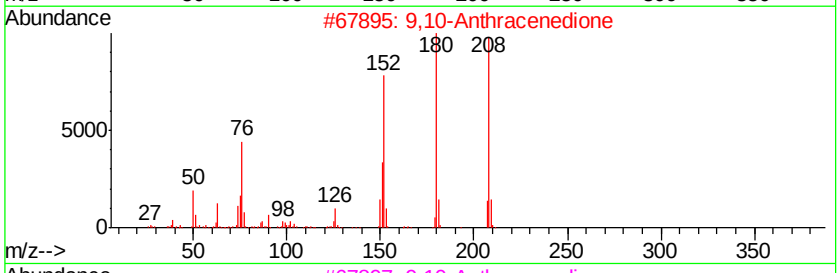
Peak Number 7 9,10-Anthracenedione Concentration Rank 9

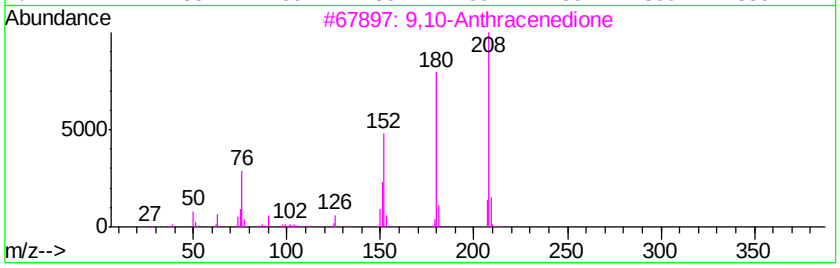
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.47 | 2.31 ng/ul | 387934 | Phenanthrene-d10 | 17.06 |

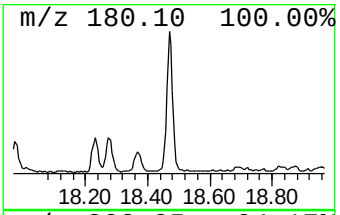
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 97 |
| 2 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 96 |
| 3 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 93 |
| 4 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 60 |
| 5 | 1H-Phenalen-1-one | 180 | C13H8O | 000548-39-0 | 60 |

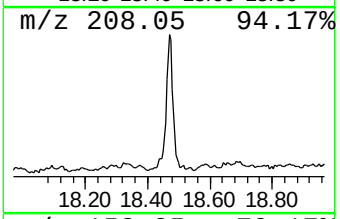


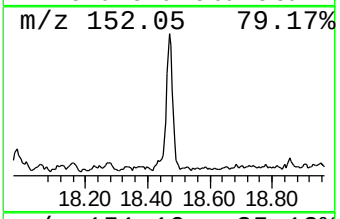



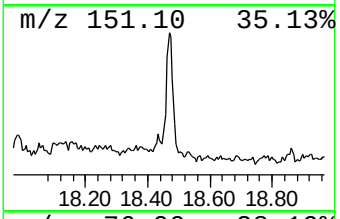



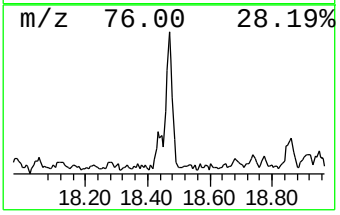



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Data File : BM023227.D
Acq On : 17 Oct 2019 19:42
Operator : JU
Sample : K5236-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BEPM1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

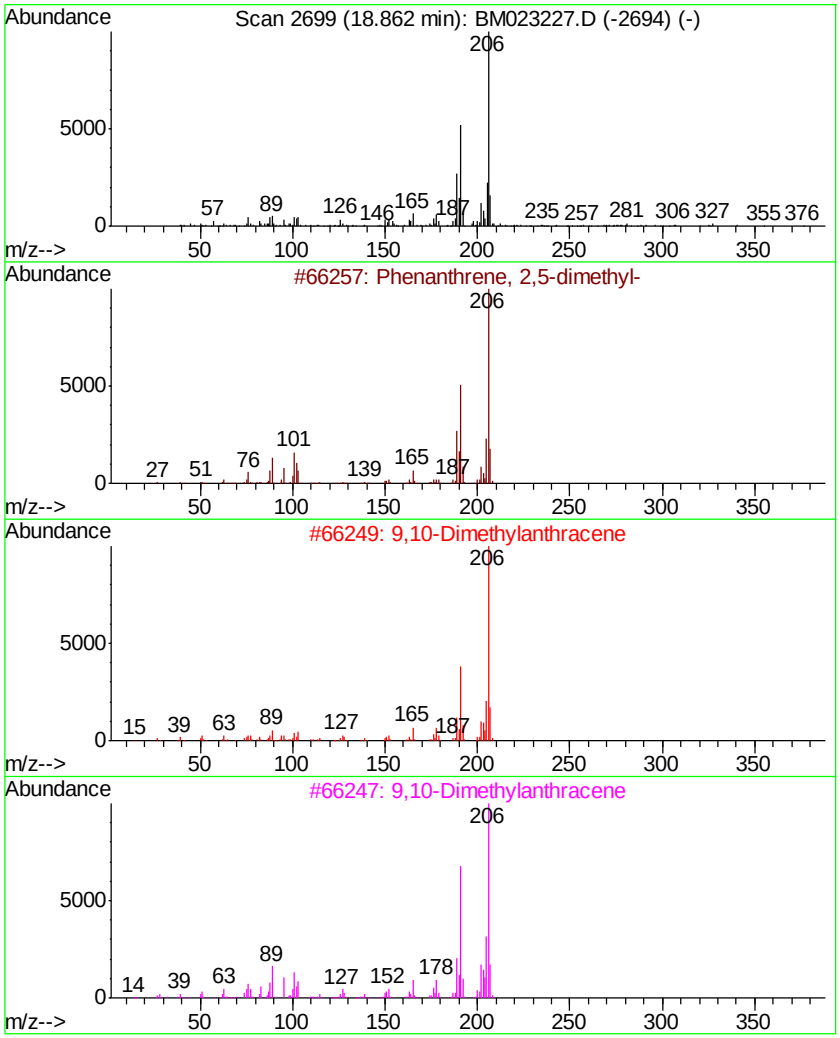
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

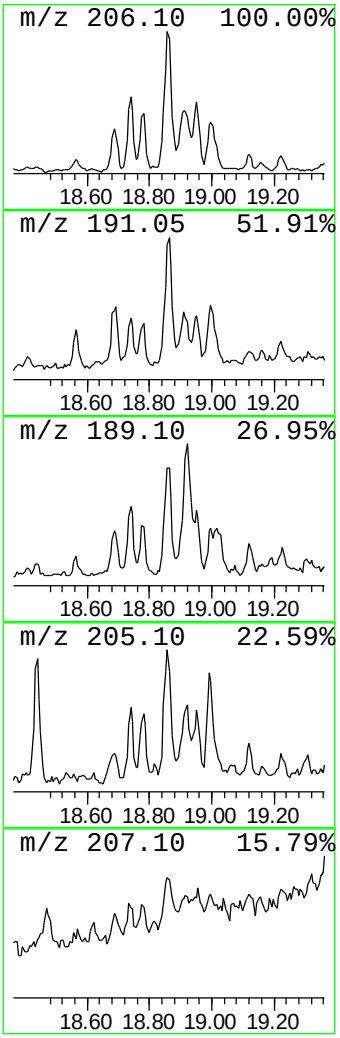
**********

Peak Number 8 Phenanthrene, 2,5-dimethyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.86 | 2.09 ng/ul | 350290 | Phenanthrene-d10 | 17.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 95 |
| 2 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 95 |
| 3 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 91 |
| 4 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 91 |
| 5 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 91 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\
Data File : BM023227.D
Acq On : 17 Oct 2019 19:42
Operator : JU
Sample : K5236-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BEPM1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

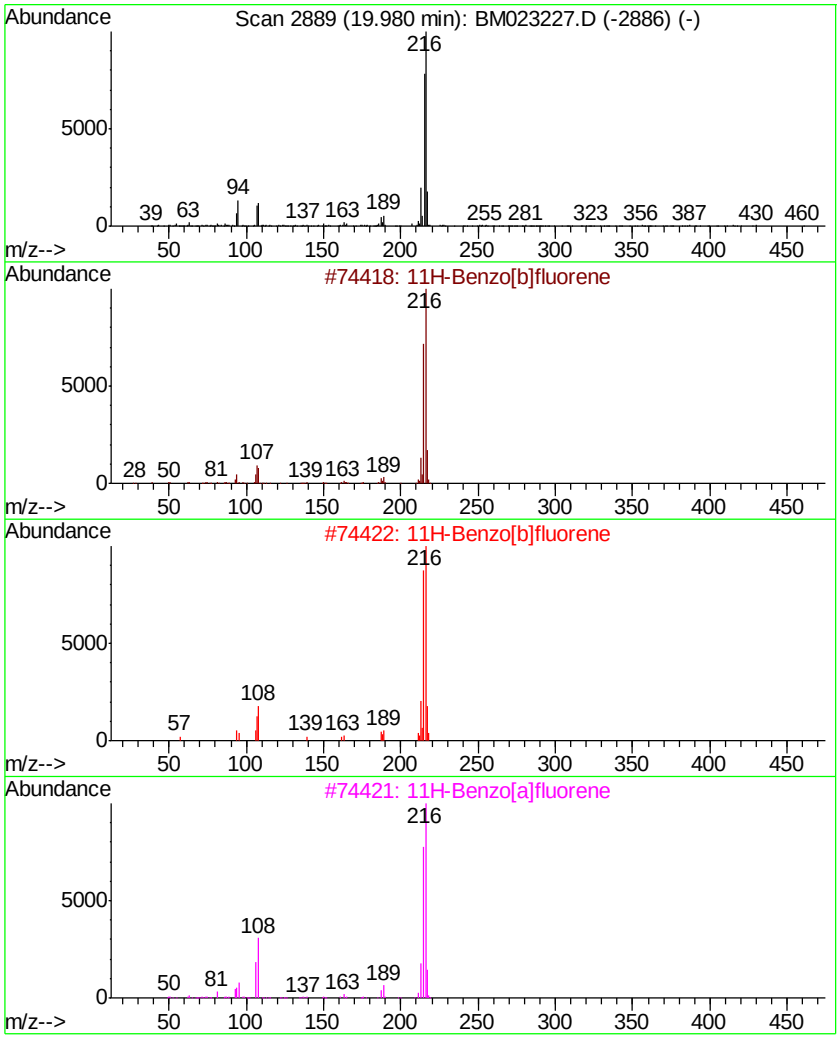
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

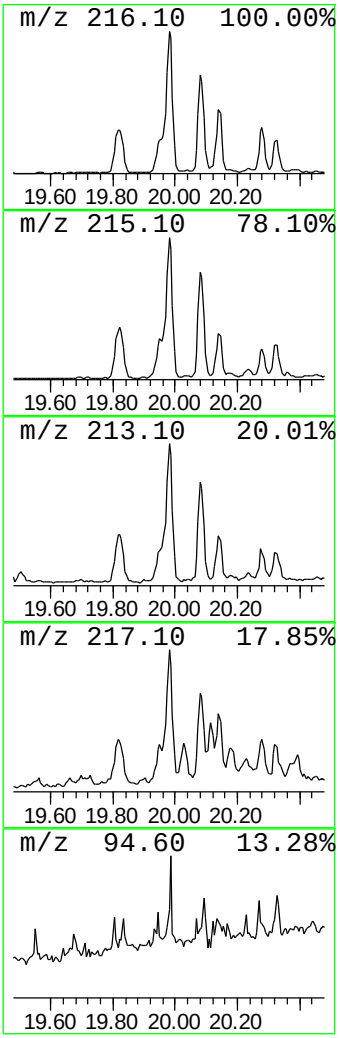
**********

Peak Number 9 11H-Benzo[b]fluorene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.98 | 2.54 ng/ul | 1007850 | Chrysene-d12 | 21.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 96 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 87 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 87 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 83 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 76 |



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Data File : BM023227.D
Acq On : 17 Oct 2019 19:42
Operator : JU
Sample : K5236-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BEPM1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

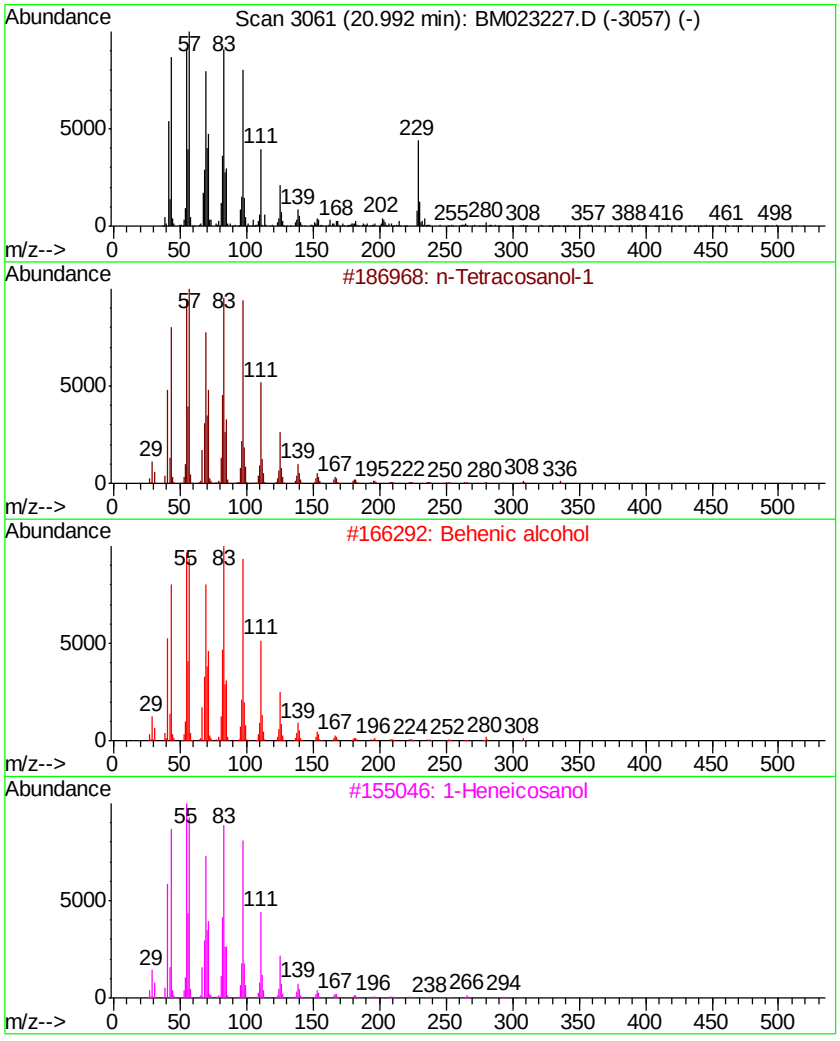
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

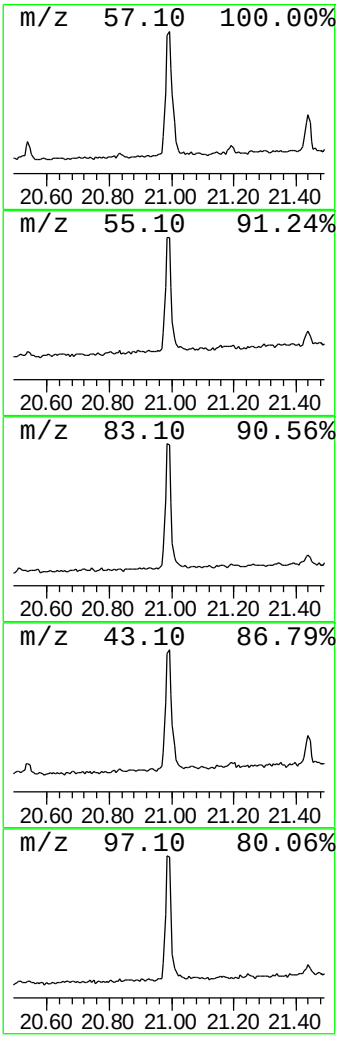
**********

Peak Number 10 n-Tetracosanol-1 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.99 | 4.10 ng/ul | 1625570 | Chrysene-d12 | 21.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 91 |
| 2 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 91 |
| 3 | 1-Heneicosanol | 312 | C21H44O | 015594-90-8 | 91 |
| 4 | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 91 |
| 5 | 5-Eicosene, (E)- | 280 | C20H40 | 074685-30-6 | 90 |



# Library Search Compound Report

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Data File : BM023227.D
Acq On : 17 Oct 2019 19:42
Operator : JU
Sample : K5236-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BEPM1

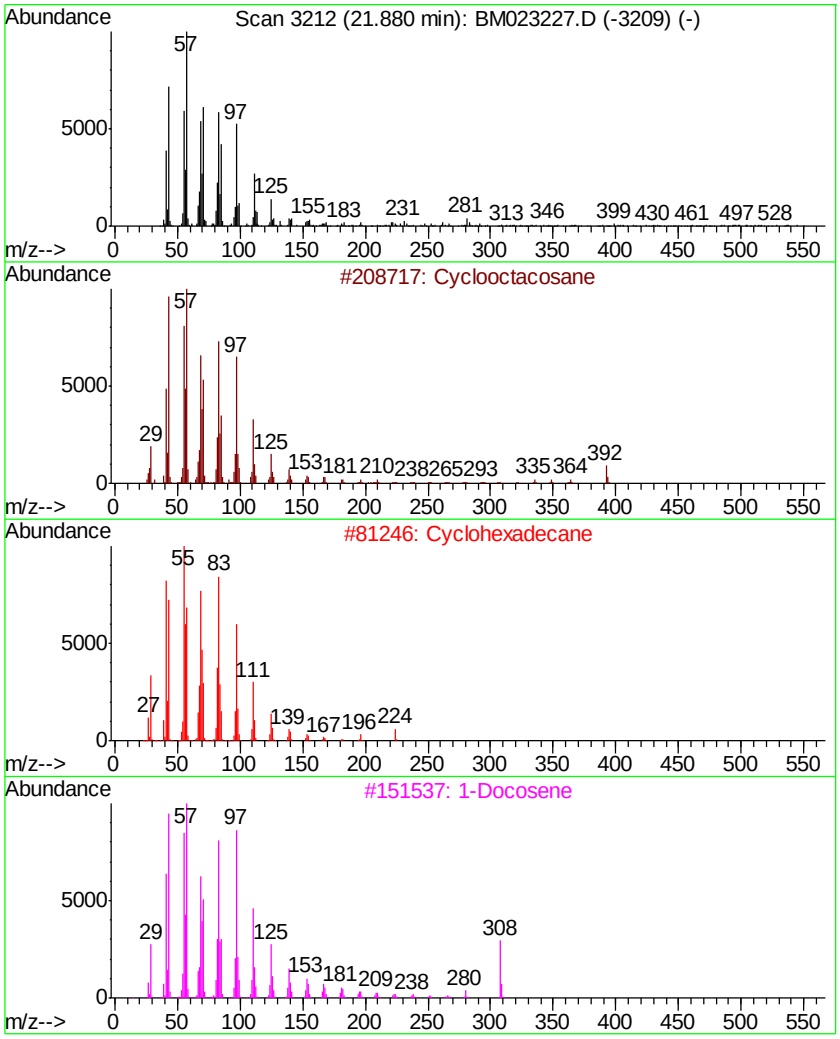
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

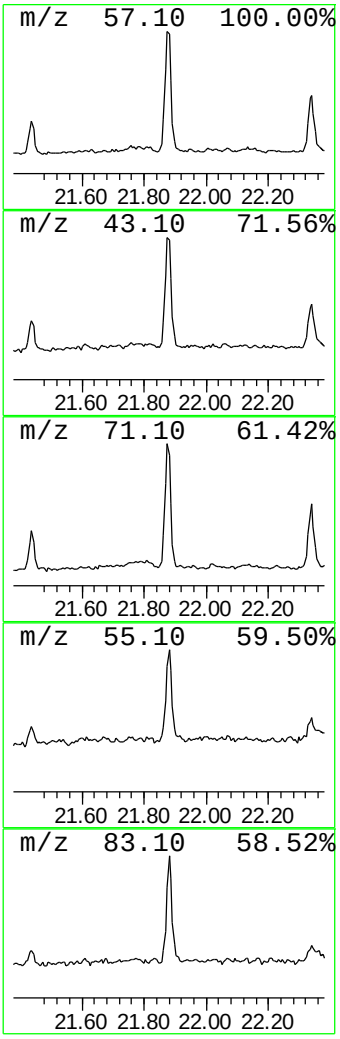
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.88 | 3.28 ng/ul | 1301630 | Chrysene-d12 | 21.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclooctacosane | 392 | C28H56 | 000297-24-5 | 98 |
| 2 | Cyclohexadecane | 224 | C16H32 | 000295-65-8 | 95 |
| 3 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 92 |
| 4 | 1-Dodecanol, 2-octyl- | 298 | C20H42O | 005333-42-6 | 90 |
| 5 | Methoxyacetic acid, heptadecyl e... | 328 | C20H40O3 | 1000282-99-1 | 90 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM101719\
Data File : BM023227.D
Acq On : 17 Oct 2019 19:42
Operator : JU
Sample : K5236-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BEPM1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| unknown-01 | 3.68 | 2.0 | ng/ul | 161953 | 1 | 7.66 | 1614820 | 20.0 |
| Toluene | 3.90 | 4.0 | ng/ul | 321113 | 1 | 7.66 | 1614820 | 20.0 |
| unknown-02 | 14.73 | 2.5 | ng/ul | 369738 | 3 | 14.31 | 2982380 | 20.0 |
| Anthracene, 2-met... | 17.93 | 2.8 | ng/ul | 470109 | 4 | 17.06 | 3354420 | 20.0 |
| Phenanthrene, 2-m... | 17.98 | 5.4 | ng/ul | 901088 | 4 | 17.06 | 3354420 | 20.0 |
| 4H-Cyclopenta[def... | 18.12 | 5.8 | ng/ul | 978862 | 4 | 17.06 | 3354420 | 20.0 |
| 9,10-Anthracenedione | 18.47 | 2.3 | ng/ul | 387934 | 4 | 17.06 | 3354420 | 20.0 |
| Phenanthrene, 2,5... | 18.86 | 2.1 | ng/ul | 350290 | 4 | 17.06 | 3354420 | 20.0 |
| 11H-Benzo[b]fluorene | 19.98 | 2.5 | ng/ul | 1007850 | 5 | 21.25 | 7932320 | 20.0 |
| n-Tetracosanol-1 | 20.99 | 4.1 | ng/ul | 1625570 | 5 | 21.25 | 7932320 | 20.0 |
| (DEL) Alkane: Str... | 21.88 | 3.3 | ng/ul | 1301630 | 5 | 21.25 | 7932320 | 20.0 |